

Name: _____

at1121exam_practice: Radicals and Squares (v10)

Question 1

Simplify the radical expressions.

$$\sqrt{50}$$

$$\sqrt{63}$$

$$\sqrt{75}$$

Question 2

Find all solutions to the equation below:

$$\frac{(x+9)^2 - 7}{3} = 31$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 18x = -56$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 3x^2 - 30x + 71$$

Express the function in **vertex form** and identify the **location** of the vertex.